

Abstract

“Process for monitoring an aereal or spatial distribution”

Process for monitoring the distribution of structures on a surface or of particles in space, wherein, for example using video technology, an optical two-dimensional image of the distribution is produced, the image is broken down into image elements, the average brightness of each image element is determined and the differences in brightness values of adjacent image elements are calculated along preselected rows of image elements. These difference values are recorded on a data storage medium and/or output in such a manner that a correlation of the difference values with the position of the image elements on the image is retained. On this basis, it is possible to determine the points at which non-uniformities occur in the distribution of the structures on a surface or of particles in space. The process may, for example, be used for assessing the homogeneity of surfaces, for detecting surface defects and for monitoring the angle of divergence and homogeneity of a spray jet.

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